

Amendment and Response and Examiner Interview Summary

Applicant: Andrew Harvey Barr et al.

Serial No.: 10/618,966

Filed: July 14, 2003

Docket No.: 200205324-1 (H300.202.101)

Title: SUPPORTING A SHORT PRINTED CIRCUIT CARD

IN THE CLAIMS

Please amend claims 1, 3, 10, 12, 18, 22, 26, and 30 as follows:

1. (Currently Amended) A short card support for supporting a short printed circuit card inserted into an electronic system having a pair of opposing card guides adapted to support a full length printed circuit card, wherein the pair of opposing card guides includes a first card guide and a second card guide, the short printed circuit card having a card guide edge adapted to couple to ~~a the first card guide of the electronic system~~ and a first edge not coupled to the electronic system, the short card support comprising:

a card guide end adapted to insert into ~~a the second card guide of the electronic system~~;

a card receptor end adapted to couple with the first edge of the short printed circuit card; and

a support span connecting the card guide end and the card receptor end.

2. (Original) The short card support of claim 1, wherein a span length of the short card support is adjustable.

3. (Currently Amended) The short card support of claim 2, wherein a card bay length is defined as a distance between the first card guide and the second card guide and the adjustable span length is selectively adjustable in a range from approximately 10% to 90% of a length of a the card bay of the electronic system length.

4. (Original) The short card support of claim 2, wherein the adjustable span length is selectively adjustable in a range from approximately 2 to 6 inches.

5. (Original) The short card support of claim 1, wherein the short card support is made from an electrically non-conducting material.

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6. (Original) The short card support of claim 5, wherein the electrically non-conducting material is selected from the group consisting of plastics, particle filled plastics, sintered materials, and inorganic materials.
7. (Original) The short card support of claim 1, wherein short card support is made from non-inflammable material.
8. (Original) The short card support of claim 1, wherein the short card support has a fixed length of less than 12 inches.
9. (Original) The short card support of claim 1, wherein the card receptor end is width adjustable to accommodate varying thickness short cards.
10. (Currently Amended) A short printed circuit card assembly insertable into an electronic system having a pair of opposing card guides adapted to support a full length printed circuit card, the pair of opposing card guides including a first card guide and a second card guide, the short printed circuit card assembly comprising:
a printed circuit card having a card guide edge adapted to couple to a the first card guide of the electronic system, and a first edge; and
a card support configured to couple to the first edge of the printed circuit card, the card support including:
a card guide end adapted to insert into a the second card guide of the electronic system,
a card receptor end adapted to couple to the first edge of the printed circuit card, and
a support span connecting the card guide end and the card receptor end.
11. (Original) The short printed circuit card assembly of claim 10, wherein a span length of the support span is adjustable.

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12. (Currently Amended) The short printed circuit card assembly of claim 11, wherein a card bay length is defined as a distance between the first card guide and the second card guide and the adjustable span length is selectively adjustable in a range from approximately 10% to 90% of a length of the card bay of the electronic system length.

13. (Original) The short printed circuit card assembly of claim 11, wherein the adjustable span length is selectively adjustable in a range from approximately 2 to 6 inches.

14. (Original) The short printed circuit card assembly of claim 10, wherein the short card support is made from an electrically non-conducting material.

15. (Original) The short printed circuit card assembly of claim 14, wherein the electrically non-conducting material is selected from the group consisting of plastics, particle filled plastics, sintered materials, and inorganic materials.

16. (Original) The short printed circuit card assembly of claim 10, wherein the card receptor end is width adjustable to accommodate varying thickness short cards.

17. (Original) The short printed circuit card assembly of claim 10, wherein the support span has a fixed length of less than 12 inches.

18. (Currently Amended) A short printed circuit card assembly inserted into an electronic system having a pair of opposing card guides adapted to support a full length printed circuit card, the pair of opposing card guides including a first card guide and a second card guide, the short printed circuit card assembly comprising:

a printed circuit card mechanically coupled to the electronic system on a first edge and mechanically and electrically coupled to the electronic system on a connector edge; and

a printed card support comprising a card guide end inserted into ~~a card guide of the electronic system~~ the second card guide opposite the first edge, a card receptor end coupled with a second edge of the printed circuit card, and a support span connecting the card guide end and the card receptor end.

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19. (Original) The short printed circuit card assembly inserted into an electronic system of claim 18, wherein a span length of the printed card support is adjustable.

20. (Original) The short printed circuit card assembly inserted into an electronic system of claim 18, wherein the support span has a fixed length of less than 12 inches.

21. (Original) The short printed circuit card assembly inserted into an electronic system of claim 18, wherein the card receptor end is width adjustable to accommodate varying thickness short cards.

22. (Currently Amended) A short card support for supporting a short printed circuit card adapted to couple to an electronic system defining a first card guide and an opposing second card guide which are together adapted to support a full length printed circuit card, the short printed circuit card having a card guide edge adapted to couple to the first card guide and a first edge, the short card support comprising:

a card guide end adapted to insert into the second card guide of the electronic system;
a card receptor end adapted to couple with the first edge of the short printed circuit card;

a support span connecting the card guide end and the card receptor end; and
means for selectively positioning the card receptor end for reception of the first edge of the short printed circuit card.

23. (Previously Presented) The short card support of claim 22, wherein the means for selectively positioning the card receptor end includes a stop assembly.

24. (Previously Presented) The short card support of claim 22, wherein the means for selectively positioning the card receptor end includes a clasp.

25. (Previously Presented) The short card support of claim 22, wherein the means for selectively positioning the card receptor end includes a pin.

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26. (Currently Amended) A method of supporting a short printed circuit card having a first edge, a second edge, the short printed circuit card insertable into an electronic system having a pair of opposing card guides adapted to support a full length printed circuit card, the method comprising:

coupling the first edge of the short printed circuit card to a first card guide of the electronic system; and

supporting the second edge of the short printed circuit card with a short card support comprising a card receptor end removably attached to the second edge of the short printed circuit card, a card guide end adapted to removably insert into a second card guide of the electronic system, and a support span connecting the card receptor end and the card guide end.

27. (Original) The method of supporting a short printed circuit card insertable into an electronic system of claim 26, wherein the short printed circuit card includes a connector edge insertable into a connector plane of the electronic system.

28. (Original) The method of supporting a short printed circuit card insertable into an electronic system of claim 27, wherein the method further comprises electrically and mechanically coupling the connector edge of the short printed circuit card to the connector plane of the electronic system.

29. (Original) The method of supporting a short printed circuit card insertable into an electronic system of claim 26, wherein the method includes adjusting a span length of the support span to bridge the distance between the card guide end coupled to the second card guide and the card receptor end removably attached to the second edge of the short printed circuit card.

30. (Currently Amended) An electronic system comprising:
a first card guide;

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a second card guide opposing the first card guide, the first and second card guides adapted to support a full length printed circuit card;

a short card inserted into the electronic system, the short card having a card guide edge coupled to the first card guide and a first edge not coupled to a card guide in the electronic system; and

a support extending from the first edge of the short card into the second card guide of the electronic system.

31. (Original) The electronic system of claim 30, wherein the support is a short card support.
32. (Original) The electronic system of claim 31, wherein the short card support is an adjustable short card support.
33. (Previously Presented) The electronic system of claim 31, wherein the short card support includes a card guide end adapted to couple to the second card guide of the electronic system, a card receptor end adapted to couple with the first edge of the short card, and a support span connecting the card guide end and the card receptor end.
34. (Original) The electronic system of claim 33, wherein the card receptor end is width adjustable to accommodate varying thickness short cards.
35. (Original) The electronic system of claim 32, wherein a span length of the support is selectively adjustable in a range from approximately 10% to 90% of a length of a card bay of the electronic system.
36. (Original) The electronic system of claim 32, wherein a span length of the support is selectively adjustable in a range from approximately 2 to 6 inches.
37. (Previously Presented) The electronic system of claim 30, wherein the electronic system is a computer system.